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10/014,570	12/14/2001	Merlin E. Scharfe	D/97244	5988
7590 11/06/2006 RICHARD M. KLEIN FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP 1100 SUPERIOR AVENUE SEVENTH FLOOR			EXAMINER	
			DOTE, JANIS L	
			ART UNIT	PAPER NUMBER
			1756	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	<u></u>	Application No.	Applicant(s)			
Office Action Summary		10/014,570	SCHARFE ET AL.			
		Examiner	Art Unit			
		Janis L. Dote	1756			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from to become ABANDONE	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on <u>25 Au</u> This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	Disposition of Claims					
5)□ 6)⊠ 7)□ 8)□	Claim(s) 6-10,12-18,20,21,25 and 26 is/are per 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 6-10, 12-18, 20, 21, 25, and 26 is/are Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers						
10) 🗌 .	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objection	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	•					
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	te			

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- 1. The examiner acknowledges the cancellation of claim 24 set forth in the amendment filed on Aug. 25, 2006. Claims 6-10, 12-18, 20, 21, 25, and 26 are pending.
- 2. The prior art rejections of claim 24 under 35 U.S.C. 103(a) set forth in the office action mailed on Jun. 8, 2006, paragraphs 6 and 8, have been mooted by the cancellation of claim 24.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. The examiner notes that US 6,287,737 B1 (Ong'737),
 US 6,177,219 B1 (Yuh), and US 6,277,535 B1 (Lin) were published
 on Sep. 11, 2001, Jan. 23, 2001, and Aug. 21, 2001,
 respectively, prior to the instant application's filing date of
 Dec. 14, 2001. Because Ong'737, Yuh, and Lin qualify as
 references under a 35 U.S.C. 102(a), as well as 102(e), they are
 available under 35 U.S.C. 103(a) and 103(c). Rejections over
 Ong'737, Yuh, and Lin are set forth infra.
- 5. Claims 6-10, 12-16, 20, 21, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,177,219 B1

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(Yuh), as evidenced by Diamond, Handbook of Imaging Materials, page 398, (Diamond I), combined with: (1) US 6,277,535 (Lin), as evidenced by US 6,287,737 B1 (Ong'737); and (2) US 4,424,267 (Kondo), as evidenced by Grant & Hackh's Chemical Dictionary, fifth edition, page 503 (Grant & Hackh's I).

Yuh discloses a photoconductive imaging member comprising in order, (1) a substrate 2, (2) a charge (i.e., hole) blocking layer 4, (3) an adhesion layer 5, (4) a charge transport layer 7, (5) a charge generation layer 6, and (6) an overcoating layer 8. See Fig. 2; and col. 2, lines 7-14. The layer structure meets the layer structure recited in instant claim 10.

Yuh does not explicitly state that the photoconductive imaging member is a positively charged imaging member. However, it is well known in the electrophotographic art that the layer structure disclosed by Yuh provides a positively charged photoconductive imaging member. See Diamond, page 398, section 9.4.1, lines 19-21, which states "[w]hen it is desired to charge the photoreceptor to a positive potential, the layers may be inverted with the transport layer coated on the substrate and the charge generation layer on the top."

(1) The substrate 2 has a thickness that is in the range of about 65 to about 150 μm . Col. 4, lines 3-5. The upper limit, "about 150 μm ," of the Yuh thickness range of "about 65 to about

150 μm" meets the thickness range of about 75 to about 275 μm recited in instant claim 6. The Yuh thickness range overlaps the thickness range recited in instant claim 6. Yuh further teaches that the substrate may be flexible or rigid, and in the form of a cylinder, a scroll, or an endless belt, all of which are within the limitations recited in instant claims 6 and 7. See Yuh, col. 3, lines 29-34.

(2) The charge blocking layer 4 comprises a binder resin having dispersed therein a plurality of grain shaped n-type organic pigment particles and a plurality of needle shaped n-type organic particles. Col. 1, lines 52-57; col. 6, lines 1-3; col. 6, lines 17-23. Yuh teaches that the n-type organic pigment particles can include dibromoanthanthrone, benzimidazole perylene, bisazo pigments, or polynuclear aromatic quinones. Col. 6, lines 29-34; and col. 7, lines 41-50. teaches that benzimidazole perylene is preferably used as the needle-shaped and/or grain shaped particles. Col. 7, lines 50-51. Yuh also identifies benzimidazole perylene as a photoconductive charge generating pigment (i.e., photogenerating pigment). Col. 8, line 59. Thus, benzimidazole perylene meets the limitation "photogenerating pigment" recited in instant claim 10. According to Yuh, the blocking layer should be continuous and can have a thickness ranging preferably from

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about 0.05 to about 5 μ m, which is within the thickness range of about 0.001 to about 5 μ m recited in instant claim 8. Col. 5, lines 32-35. The thickness value of "about 0.05 μ m" is within the range of about 0.005 to 0.3 μ m recited in instant claim 9.

- (3) The adhesive layer $\bf 5$ has a thickness of about 0.001 to about 0.2 μ m, which meets the range of about 0.001 to about 0.2 μ m recited in instant claim 12. Col. 8, lines 29-31.
- (4) The charge transport layer 7 comprises a charge transport material, such as arylamines, in particular "N,N'diphenyl-N, N'-bis(alkylphenyl)-(1,1'biphenyl)-4,4'diamines where the alkyl is selected from the group consisting of methyl, ethyl, propyl, butyl, hexyl, and the like." Col. 10, lines 26-30. Said N, N'-diphenyl-N, N'-bis(alkylphenyl)-(1,1'biphenyl)-4,4'diamines meet the arylamine compositional limitations of the formula recited in instant claims 13-15. N, N'-diphenyl-N, N'-bis(alkylphenyl)-(1,1'biphenyl)-4,4'diamines where the alkyl is methyl, ethyl, propyl, or butyl meet the compositional limitations recited in instant claim 16. Yuh further teaches that the charge transport material can be dispersed in an "inactive" binder resin, such as a polycarbonate resin, as recited in instant claim 14. Col. 10, lines 33-42, The charge transport layer can have a thickness of between about 5 to about 100 µm. Col. 10, lines 62-63. The Yuh

thickness range overlaps the range of "about 10 micrometers to about 75 micrometers" recited in instant claim 16.

(5) The charge generation layer 6 comprises particles of a charge generation material dispersed in a film forming binder. Col. 9, lines 6-19 and 40-49. Yuh teaches that the charge generation material can be hydroxygallium phthalocyanine, which meets the hydroxygallium phthalocyanine recited in instant claim 20. Col. 8, lines 63-64. The layer can have a thickness of about 0.1 to about 10 μm, preferably from about 0.2 to about 4 μm. Col. 9, lines 54-57. The lower limit "about 0.2 μm" of the Yuh preferred thickness range meets the range of about 0.2 to about 0.7 μm recited in instant claim 21. Both Yuh ranges overlap the thickness range recited in instant claim 21.

Yuh does not disclose that the binder resin in its blocking layer 4 comprises a crosslinked polysiloxane polymer as recited in instant claim 10. However, Yuh teaches that the "binder resin may be formed of the same materials as that of the blocking layer formed as a single resin layer." Col. 6, lines 1-3. Yuh further teaches that the blocking layer can comprise a polymer, such as a polysiloxane. Col. 5, lines 1-17.

Lin teaches a single resin charge blocking layer comprising a crosslinked polysiloxane polymer. Col. 2, lines 39 and 47-55; and col. 11, lines 2-9. The crosslinked

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polysiloxane polymer is obtained by crosslinking polymer (IIIa) in example I of Lin with the silane coupling agents

3-aminopropyl-trimethoxysilane and 1,2-bis(triethoxy-silyl)ethane. Col. 4, lines 50-65; and example I at col. 10.

Lin further teaches that its charge blocking underlayer can be used in photoconductive members that follow any of various known photoreceptor designs. Col. 6, lines 51-54. According to Lin, its charge blocking layer provides a solvent resistant and "mechanically and electrically robust undercoating layer that enhances the photoreceptor electrical performance characteristics such as, for example, stable environmental and cyclic performance." Col. 3, lines 8-12; and col. 3, line 66, to col. 4, line 3.

Lin does not explicitly disclose that the crosslinked polysiloxane polymer forms a network impregnated with hydroxy-containing polymers. However, as discussed above, the Lin crosslinked polysiloxane polymer is obtained by crosslinking the polymer (IIIa) in example I of Lin with the silane coupling agents 3-aminopropyl-trimethoxysilane and 1,2-bis(triethoxysilyl)ethane. The Lin polymer (IIIa) is obtained by reacting the monomers 2-hydroxymethacrylate, 3-(trimethoxysilyl)propyl methacrylate, and methylmethacryate. The Lin polymer (IIIa) is similar to the Ong'737 polymer (IVa), except

for the lack of the vinyl benzene 9-dicyanomethylenefluorene-4carboxylate repeat units in the Ong'737 polymer (IVa). Ong'737, col. 16, lines 50-65, and example I at cols. 28-29. Ong'737 teaches that the cross-linking reaction of polymer (IVa) with the silane compound (II), such as 3-aminopropyltrimethoxysilane, forms a cross-linked polysiloxane polymer network impregnated with hydroxy-containing polymers. See col. 7, line 46; the reaction scheme shown at col. 11, lines 1-52; and example IV at col. 29, lines 45-50. The silane compound II reacts with the silyl functional group of the 3-(trimethoxy-silyl)propyl methacrylate units in the polymer (IVa) to form the cross linked polysiloxane polymer network impregnated with hydroxy-containing polymers. Accordingly, it is reasonable to conclude that the Lin crosslinked polysiloxane forms a network impregnated with hydroxy-containing polymers. The burden is on applicants to prove otherwise. Fitzgerald, 205 USPQ 594 (CCPA 1980).

It would have been obvious for a person having ordinary skill in the art, in view of the teachings of Yuh and Lin, to use the Lin crosslinked polysiloxane polymer as the binder resin in the charge blocking layer in the photoconductive imaging member disclosed by Yuh, as evidenced by Diamond I, such that the cross-linked polysiloxane polymer is dispersed therein with

the plurality of grain shaped n-type organic particles and the plurality of needle shaped n-type organic particles, where the organic particles are benzimidazole perylene, as taught by Yuh. That person would have had a reasonable expectation of obtaining a positively charged photoconductive imaging member that has enhanced electrical performance characteristics, in particular stable environmental and cyclic performance, as disclosed by Lin.

Yuh also does not disclose that the overcoating layer 8 comprises a crosslinked silicone rubber and a resilient, electrically insulating overcoating layer as recited in instant claim 10. However, Yuh does not limit the type of overcoating layer used. Yuh teaches that the overcoating layer can comprise organic polymers that are electrically insulating. Col. 11, lines 17-23.

Kondo discloses a two layer topcoat for photoconductive imaging members. Kondo discloses that the photoconductive layer can be coated with a curable rubber layer and an insulating layer on top of the curable rubber layer. Col. 4, lines 10-13. Kondo teaches that the curable rubber may be a curable silicone rubber. Col. 4, line 46. Kondo discloses that the curable rubber used in its curable rubber layer is a rubber which is cured by energy, such as heat, light, an electron beam and the

like. Col. 4, lines 28-30. Kondo discloses that the "curing is caused by the formation of crosslinking and three dimensional chemical structure, and thereby rubber elastic property is decreased." Col. 4, lines 30-33. Thus, Kondo teaches a crosslinked silicone rubber layer, as recited in instant claim 10. According to Kondo, the curable rubber layer improves the adhesion between the photoconductive layer and the insulating layer, which improves the durability of the imaging members to a great extent. Col. 3, lines 37-50; and the table at col. 8 (in particular compare Sample A and comparative Sample B). The table at col. 8 shows that the photoconductive member in Sample A, which comprises the curable rubber layer and the insulating top layer, produced more than 35,000 copies without degrading. However, the table shows that the photoconductive member in Sample B, which only comprises the insulating top layer, produced only 2,000 copies before part of the top layer peeled off.

Kondo discloses that the insulating top layer may have a preferred thickness from 0.1 to 50 micrometers. Col. 5, lines 4-6. Kondo exemplifies an insulating layer comprising a silicone resin having a layer thickness of 10 micrometers, which is within the range of "about 5 micrometers to about

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10 micrometers" recited in instant claim 25. Col. 9, lines 32-35.

Kondo further discloses an imaging process comprising the steps of (1) charging an imaging member comprising the insulating silicone resin layer and (2) imagewise exposing the charged imaging member to light to form an electrostatic latent image. Col. 6, lines 42-49; col. 8, lines 18-22; and Sample (G), col. 9, lines 33-35. Thus, Kondo demonstrates that the insulating silicone resin layer is "substantially transparent to activating radiation" as recited in instant claim 26.

Kondo does not disclose that its insulating silicone resin layer is "electrically insulating" and "resilient" as recited in instant claims 10 and 26. However, the Kondo insulating silicone resin layer does not appear to contain any groups that would render it electrically conductive. In addition, the word "resilient" is commonly defined as "elastic, rebounding." See Grant & Hackh's Chemical Dictionary, page 503. According to Kondo, the insulating layer is formed for "the purpose of protecting the photoconductive layer, improving the mechanical strength of the photosensitive member, and bettering the dark decay characteristics of the member." Col. 1, lines 40-44.

Because the Kondo insulating silicone layer does not appear to

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comprise any groups that would render it electrically conductive and because it improves the mechanical strength of the photosensitive member, it is reasonable to conclude that Kondo's insulating layer is "electrically insulating" and also "resilient." The burden is on applicants to prove otherwise.

Fitzgerald, supra.

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It would have been obvious for a person having ordinary skill in the art to form on the surface of the charge generating layer 6 in the photoconductive imaging member rendered obvious over the combined teachings of Yuh, as evidenced by Diamond I, and Lin, as evidenced by Ong'737, an overcoating layer that comprises a cross linked silicone rubber layer and an insulating silicone resin layer having a thickness of 10 micrometers on the crosslinked silicone rubber layer as taught by Kondo. That person would have had a reasonable expectation of successfully obtaining a positively charged photoconductive imaging member having improved durability and mechanical strength as taught by Kondo.

6. Claims 6-10, 12-18, 21, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,316,880 (Pai), as evidenced by Diamond I, combined with: (1) Yuh; (2) Lin, as

evidenced by Ong'737; and (3) Kondo, evidenced by $\underline{\text{Grant }\&}$ Hackh's I.

Pai discloses a photoconductive imaging member comprising in order (1) a conductive substrate, (2) a charge blocking layer, (3) an adhesion layer, (4) a charge generation layer, and (5) a charge transport layer. See col. 4, lines 59-61, and example VII at cols. 24-25.

- (1) The conductive substrate comprises a polyethylene terephthalate film coated with a titanium layer. Col. 24, lines 46-49. Pai further discloses that the substrate may be an endless flexible belt, a web, a rigid cylinder, or a sheet, all of which are within the limitations recited in instant claims 6 and 7. See Pai, col. 5, lines 10-13. The flexible belt may have a thickness of about 125 μ m, which is within the range recited in instant claim 6. Col. 5, lines 16-17.
- (3) The adhesive layer has a thickness of 50 Angstroms (i.e., $0.005~\mu m$), which is within the range recited in instant claim 12. Col. 24, lines 53-55.
- (4) The charge generation layer comprises a vanadyl phthalocyanine dispersed in a film forming binder. The layer has a thickness of about 1 μ m, which reads on the thickness of "about 0.7 μ m" recited in instant claim 21. Col. 24, lines 56-61. Pai also discloses that the charge generation

layer may have a preferred thickness of about 0.3 to about 3 μ m. Col. 7, lines 58-59. The thickness of about 0.3 μ m is within the range of about 0.2 to about 0.7 μ m recited in instant claim 21.

(5) The charge transport layer comprises the arylamine charge transport molecules N,N'-diphenyl-N,N'-bis(3-methylphenyl)-(1,1'-biphenyl)-4,4'-diamine, dispersed in a polyethercarbonate charge transport polymer. Col. 24, lines 60-66. The arylamine charge transport component meets the compositional limitations recited in instant claims 13-16. The polyethercarbonate is within the compositional limitations recited in instant claims 17 and 18. The charge transport layer has a thickness of 30 μ m, which is within the thickness range recited in instant claim 16.

Pai does not exemplify a photoconductive imaging member where the charge generation layer is on top of the charge transport layer. However, Pai teaches that in some embodiments, the charge transport layer can be applied onto the blocking layer prior to the application of the charge generation layer.

Col. 4, lines 66-68. In other words, Pai teaches that the charge generation layer can be applied on top of the charge transport layer, which meets the layer structure recited in instant claim 10.

Pai does not identify the photoconductive imaging member having the above disclosed layer structure as a positively charged photoconductive imaging member. However, it is well known in the electrophotographic art that the layer structure disclosed by Pai provides a positively charged photoconductive imaging member. See Diamond, page 398, section 9.4.1, lines 19-21, which states "[w]hen it is desired to charge the photoreceptor to a positive potential, the layers may be inverted with the transport layer coated on the substrate and the charge generation layer on the top."

According to Pai, its photoconductive imaging member exhibits improved imaging operation during extended image cycling, integrity of layers underlying the charge transport layer, and high charge carrier mobilities. Col. 4, lines 10-27.

It would have been obvious for a person having ordinary skill in the art, in view of the teachings of Pai, to place the charge generation layer on top of the charge transport layer in the photoconductive imaging member disclosed by Pai. That person would have had a reasonable expectation of successfully obtaining a positively charged photoconductive imaging member that exhibits improved imaging operation during extended image cycling, integrity of layers underlying the charge transport layer, and high charge carrier mobilities, as taught by Pai.

Pai also does not exemplify a charge blocking layer (2) as recited in instant claim 10. However, Pai does not limit the type of blocking layer used. Col. 4, lines 56-61 and 66-68.

Yuh teaches a charge blocking layer that comprises a binder resin having dispersed therein a plurality of grain shaped n-type organic pigment particles and a plurality of needle shaped n-type organic particles. Yuh teaches that the n-type organic pigment particles preferably are benzimidazole perylene, which is identified as a photoconductive charge generating pigment (i.e., photogenerating pigment). The discussion of the Yuh charge blocking layer in paragraph 5 above is incorporated herein by reference. As discussed in paragraph 5, Yuh teaches that its charge blocking layer can be used in photoconductive imaging members where the charge generation layer is applied to the top of the charge transport layer. See Yuh, Fig. 2, and col. 2, line 13. According to Yuh, its charge blocking layer is an improved charge blocking layer. Col. 1, lines 7-8. teaches that the "needle-line particles are easily contacted with the predominant grain like particles and the contact area between the particles is greater than that of grain-like particles alone. The electron transport through the blocking layer can then be improved by the better contacts between particles. Therefore, even with a smaller content of the

needle-like particles in the blocking layer, a blocking layer having an equivalent properties can be easily produced.

Employing a reduced amount of needle-like particles is advantageous for improving film strength and adhesive properties with the conductive support. The properties of the photoreceptor containing the needle-like particles are not degraded after repeated use because the contact between the needle-like particles thereof are strong, whereby excellent stability is obtained." Col. 8, lines 1-16.

It would have been obvious for a person having ordinary skill in the art, in view of the teachings of Yuh, to incorporate the Yuh charge blocking layer comprising a plurality of grain shaped n-type organic particles and a plurality of needle shaped n-type organic particles, where the organic particles are benzimidazole perylene, as the charge blocking layer in the photoconductive imaging member rendered obvious over the teachings of Pai. That person would have had a reasonable expectation of successfully obtaining a positively charged photoconductive imaging member that has improved durability and excellent stability.

Yuh does not disclose that the binder resin in its blocking layer comprises a crosslinked polysiloxane polymer as recited in instant claim 10. However, Yuh teaches that the "binder resin"

may be formed of the same materials as that of the blocking layer formed as a single resin layer." Col. 6, lines 1-3. Yuh further teaches that the blocking layer can comprise a polymer, such as a polysiloxane. Col. 5, lines 1-17.

Lin teaches a single resin charge blocking layer comprising a crosslinked polysiloxane polymer. For the reasons discussed in paragraph 5 above, it is reasonable to conclude that the crosslinked polysiloxane polymer taught by Lin forms a network impregnated with hydroxy-containing polymers. Lin further teaches that its charge blocking underlayer can be used in photoconductive members that follow any of various known photoreceptor designs. The discussions of Lin and Ong'737 in paragraph 5 above are incorporated herein by reference.

It would have been obvious for a person having ordinary skill in the art, in view of the teachings of Yuh and Lin, to use the Lin crosslinked polysiloxane polymer as the binder resin in the charge blocking layer in the photoconductive imaging member rendered obvious over the combined teachings of Pai and Yuh, such that the cross-linked polysiloxane polymer is dispersed therein with the plurality of grain shaped n-type organic particles and the plurality of needle shaped n-type organic particles, where the organic particles are benzimidazole perylene, as taught by Yuh. That person would have had a

reasonable expectation of obtaining a positively charged photoconductive imaging member that has enhanced electrical performance characteristics, in particular stable environmental and cyclic performance as disclosed by Lin.

Pai does not exemplify an imaging member comprising an overcoat layer that comprises a crosslinked silicone rubber and a resilient, electrically insulating overcoating layer as recited in instant claim 10. However, Pai discloses that its imaging member may comprise an overcoat layer to improve the resistance to abrasion. Col. 20, lines 54-55. Pai further discloses that the overcoating layer is well-known in the art. Col. 20, lines 58-59.

Kondo discloses a two layer topcoat for photoconductive imaging members, which comprises a cross linked silicone rubber layer and an insulating silicone resin layer on top of the cross linked silicone rubber layer. The discussions of Kondo and Grant & Hackh's I in paragraph 5 supra are incorporated herein by reference.

It would have been obvious for a person having ordinary skill in the art to form on the surface of the photoconductive imaging member rendered obvious over the combined teachings of (1) Pai, as evidenced by Diamond, (2) Yuh, and (3) Lin, as evidenced by Ong'737, an overcoat layer that comprises a

crosslinked silicone rubber layer and an insulating silicone resin layer having a thickness of 10 micrometers on the crosslinked silicone rubber layer as taught by Kondo. That person would have had a reasonable expectation of successfully obtaining a positively charged photoconductive imaging member having improved durability and mechanical strength as taught by Kondo.

7. Applicant's arguments filed on Aug. 25, 2006, as applied to the rejections set forth in paragraphs 5 and 6 above have been fully considered but they are not persuasive.

Applicants assert that the Kondo does not teach a resilient overcoat layer. Applicants assert that it is not reasonable to presume that Kondo's insulating layer is resilient. Applicants assert that "the three purposes of protection, improving mechanical strength, and bettering the dark decay characteristics do not inherently require the insulating layer to be resilient. Improvement of mechanical strength is also usually interpreted as making the layer stiffer . . . Kondo does not appear to teach that the insulating layer is made mechanically stronger by making it easier to bend."

Applicants' arguments are not persuasive. Applicants' assertions are merely attorney argument. Applicants have not

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provided any objective evidence to support their assertions. Furthermore, Kondo, at col. 2, lines 57-68, discloses that image-holding members, i.e., photosensitive members, used for electrophotographic processes "are subjected to various electrical and mechanical effects such as corona charging, development, cleaning and the like so that the image-holding members are often deteriorated or damaged . . . Therefore, it has been demanded to produce an image-holding member having excellent resistance to mechanical and electrical impacts . . ." (emphasis added). It would appear that in the electrophotographic arts, improvement in mechanical strength would include resistance to mechanical impacts, which would include being "elastic, rebounding." Applicants have not provided any objective evidence to show that the Kondo insulating silicone resin overcoat is not resilient as recited in instant claim 10. Accordingly, the rejections of claims 6-10, 12-18, 20, 21, 25, and 26 set forth in paragraphs 5 and 6 stand.

8. THIS ACTION IS MADE FINAL. Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS

of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janis L. Dote whose telephone number is (571) 272-1382. The examiner can normally be reached Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Mark Huff, can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry regarding papers not received regarding this communication or earlier communications should be directed to Supervisory Application Examiner Ms. Claudia Sullivan, whose telephone number is (571) 272-1052.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JLD Nov. 1, 2006 JANIS L. DOTE PRIMARY EXAMINER GROUP 1500